

Amendments to the Claims:

1. – 13. (Canceled)

14. (Currently Amended) A method of identifying a candidate compound that modulates fat metabolism, said method comprising

- a) contacting a mammalian cell or a nematode cell with a candidate compound;
- b) obtaining mRNA from said mammalian cell or said nematode cell;
- c) contacting a microarray ~~of claim 12~~ with said mRNA, wherein said microarray consists of at least two mammalian or nematode fat metabolism regulator nucleic acids or fragments thereof, and wherein inactivation of each of said mammalian or nematode fat metabolism regulator nucleic acids results in an alteration in fat content of an organism compared to a control organism; and
- d) detecting an alteration in cellular mRNA levels ~~of a~~ of at least two fat metabolism regulator nucleic acid molecule molecules in said mammalian cell or said nematode cell contacted with said candidate compound compared to a control ~~cell~~; cell, wherein said alteration identifies the candidate compound as a candidate compound that modulates fat metabolism.

15. – 29. (Canceled)

30. (New) The microarray of claim 14, wherein said mammalian cell is contacted with said candidate compound and said microarray consists of at least two mammalian fat metabolism regulator nucleic acids.

31. (New) The microarray of claim 14, wherein said nematode cell is contacted with said candidate compound and said microarray consists of at least two nematode fat metabolism regulator nucleic acids.